



GOVERNMENT SOLUTIONS

WWW.CALAMP.COM



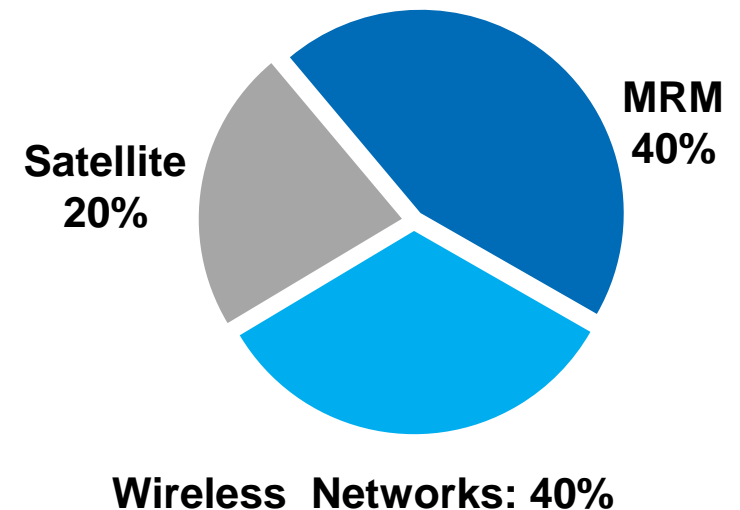
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PROVEN LEADER PROVIDING BUSINESS-CRITICAL WIRELESS PRODUCTS AND SOLUTIONS TO A BROAD ARRAY OF TARGETED INDUSTRIES

- Founded 1981, publicly traded (NASDAQ: CAMP) since 1983
- \$230M annual revenue (TTM)
- Global presence with offices & people in North America, Europe, Asia/Pacific & Latin America
- Established solutions for business critical, public & private wireless communications applications
- Extensive portfolio of intelligent communications devices, robust and scalable cloud service platforms, and targeted software applications & solutions

PROVEN LEADERSHIP

- **30M+** units shipped since inception
- **3.5M+** devices under cloud-based device management
- **100K+** units/month | ~ **1.5M** annual run rate
- **400k+** application/data subscribers on CalAmp systems



BROADEST PORTFOLIO OF M2M MODEMS, GATEWAYS, & ROUTERS



DESIGNING, DEVELOPING, AND MANUFACTURING A BROAD RANGE OF DEVICES THAT ENABLE VARIOUS MRM AND M2M APPLICATIONS

BEST OF BREED

- Broad, multi-tiered portfolio for key high-volume & growth segments
- Tremendous scale to worldwide markets
- Highly differentiated & configurable devices
- Intelligent, embedded applications
- Powerful device management & control
- Strong relationships with global tier 1 MNOs; broad certifications

NUMEROUS APPLICATIONS

- Fleet management
- Asset & container tracking
- Navigation & dispatch
- Usage-based insurance
- Driver behavior
- Mobile workforce management
- Vehicle area network
- Remote monitoring
- Vehicle utilization



Track & Trace
Device



Trailer Trackers



Fleet Trackers



Asset Trackers



On-Board
Diagnostics Devices



Rugged Routers

Market solutions optimize operations by collecting, monitoring, and efficiently reporting business-critical data and desired intelligence from high-value remote assets.

TRANSPORTATION



- Fleet management for heavy equipment & rail
- Telemetry, telematics, location & diagnostics, and equipment tracking & management

ENERGY



- SCADA & telemetry systems
- GPS fleet tracking for complete remote visibility of fleets
- Smart grid infrastructure, metering and tank monitoring

GOVERNMENT



- Local/state Mission-critical secure communications
- Minimum response time w/ real-time situational awareness
- Access to databases and patient information

AUTOMOTIVE



- Secure access to leased & financed vehicles for loan protection
- Affordable remote management and protection



MOBILE RESOURCE MANAGEMENT

Access the **broadest portfolio of devices** and **advanced device management tools** leveraged by global MRM and fleet application solution providers.

- **MULTI-TIERED PORTFOLIO**
- **HIGHLY DIFFERENTIATED & CONFIGURABLE DEVICES**
- **POWERFUL MANAGEMENT & CONTROL**
- **CUSTOM SKUS**



**TRACK & TRACE
DEVICE**



**TRAILER
TRACKERS**



**FLEET
TRACKERS**



**ASSET
TRACKERS**



**ON-BOARD
DIAGNOSTICS
DEVICES**



**RUGGED
ROUTERS**

THE CALAMP FLEET TRACKING SOLUTION



PROVIDING TOOLS TO ENABLE SECURE, SCALABLE AND RELIABLE END-TO-END WIRELESS COMMUNICATIONS FOR MIXED MOBILE FLEETS

ASSET TRACKING

Non Motorized Asset



Motorized Asset



FLEET MANAGEMENT

Light/Medium/Heavy duty Vehicles



Police Vehicles Fire Apparatus



FUSION

One Platform. Countless Applications.





- **FirstNet Ready**
 - 2+ years active with the PSCR Lab Boulder, CO. Successful field trials B14 LTE networks (BTOP)
 - Work with and support major primes – Ericsson, Nokia, NGC, ALU, GDC4S, Harris RF Comm, OCEUS, Mutualink, TCS, others
 - Accommodate – Bands 4,12,13,14,17 and RF modules as business case allows
 - One of few FCC approved Band 14 Modules
 - Field Upgradeable from a VZW or AT&T only SKU
 - Deployed in Adams County, NJ pending decision, Harris County TX testing,
- **WiFi Vehicle Area Network**
 - 802.11 b/g/n WiFi 3x3 MIMO (Client/AP/Concurrent)
- **Integrated Fleet Management / AVL Telematics / Diagnostics**
- **Rugged: MIL-STD 810G**
- **Device Management**
 - Over-the-Air (OTA) Configuration/Updates



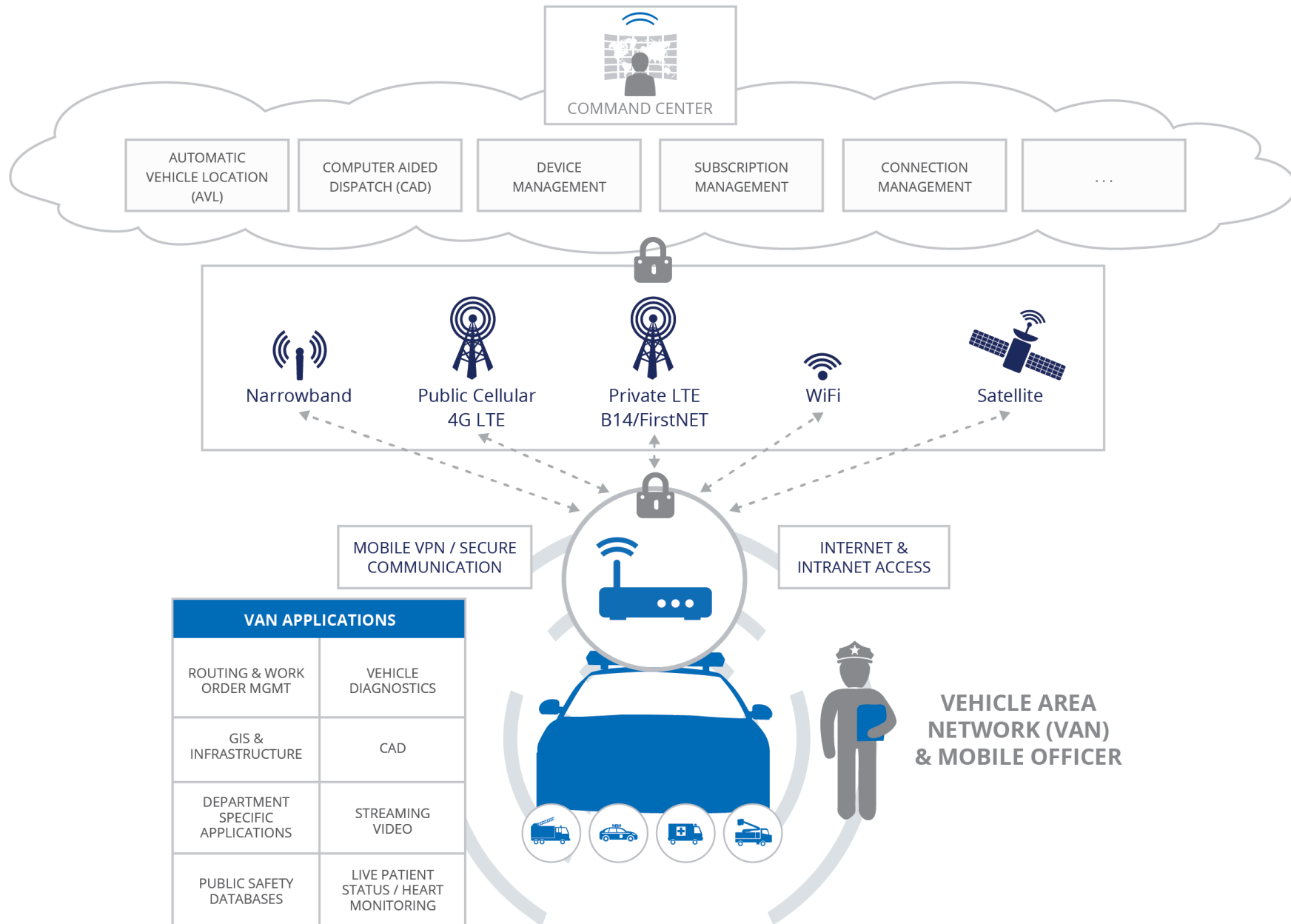
ONE PLATFORM. COUNTLESS APPLICATIONS



CALAMP FUSION

Mission-Critical Multi-Network LTE Router

VEHICLE AREA NETWORK ECOSYSTEM



HIGH-PERFORMANCE EDGE ROUTER

- Concurrent Multi-Band / Multi-WAN or LAN with high precision GPS (50 channel / AVL adaptive)
- Wi-Fi 802.11 b/g/n 3x3 MIMO 300 mbps + concurrent AP/Client Mode (2.4 GHz or 5.8 GHz)

SUPERIOR CONFIGURATION FUNCTIONALITY

- IP persistence / configurable ping, RSSI, RX timeout disconnect probes
- WAN prioritization / traffic routing / port forwarding / IP filtering / static routes
- I/O Ready: 2 digital inputs / 2 analog inputs + 2 outputs
- Land Mobile Radio (LMR) / satellite Ethernet configurable

EXTRA ADVANCE SECURITY

- IPSEC (IKEv1 NAT/Traversal/IKEV2/IKEV2 MobIKE) / HTTPS WPA2 Enterprise / AP-Client
- Radius authentication

UNMATCHED USER EXPERIENCE

- Quick setup / straightforward interface / powerful device management platform
- Externally accessible SIMS for trouble-free swap out
- Advanced Cellular routing and monitoring for robust handling of fallback with multiple complex LTE networks
- Verizon Private Networking certified



ONE PLATFORM. COUNTLESS APPLICATIONS.

Fusion Refresh



4G

3G

2G

B14/FNN



DeviceOutlook

Next Generation Dual Radio Router

Fusion Features

- 4G Dual Radio
- Mobile version (GPS & WiFi)
- Industrial grade metal enclosure
- External antennas
- Identical connectivity options (Ethernet/Serial)
- Matching software features: Routing/Security/IP Filters
- Duplicate Certifications: UL, C1D2, CE

Updated Features

- 4G LTE Cellular AWS band
 - Improved bandwidth, supports request for Verizon XLTE network expansion
- 802.11 WiFi b/g/n/i/ac MIMO & BT
 - Improved speed to offer more performance
- I/O Expansion, plus USB
 - More connectivity options to expand integration possibilities, add serial
- Processor & memory update
 - Higher performance architecture to support enhanced features
- Accelerometer
 - Additional monitoring in mobile applications
- Improved Industrial grade metal enclosure
 - IP65 rated

- ❑ Multi-network router platform supporting two concurrent embedded LTE MIMO radio modules (B13/B14 or B17/B14 “concurrent”: 2x LTE networks, plus 1x dual-band “N” Wi-Fi). All LTE and Wi-Fi networks operate concurrently (simultaneously).
- ❑ Band 13 Verizon/Band 17 AT&T certified now – Band 14 FirstNet PSBN field upgradeable later (already testing B14 at PSCR / future-proof CAPEX purchase)
- ❑ Standards based FirstNet Band 14 PSBN PEM will be provided by Calamp to support operation on any FirstNet LTE B14 PSBN infrastructure (proven field experience on multiple manufacturer networks)
- ❑ 3x Ethernet and 2x USB ports supporting multiple peripheral device connectivity (laptop, IP-camera, e-Ticket, etc.)
- ❑ Robust advanced routing features of WAN, LAN, and ETH ports (flexible/configurable expansion)
- ❑ Robust high-performance dual-band 2.4/5.8 GHz Wi-Fi (Access Point or Client or simultaneous operation) radio 3x3 MIMO for “N” Wi-Fi (Mobile Hot Spot/client)
- ❑ Autonomous WAAS GPS/AVL (AAVL) with time and position reporting, local and remote delivery. (GPS updates can be sent without a computer connected)

- ❑ Compact sized router (flexible mounting in vehicles, motorcycles, aircraft, ATV's)
- ❑ Very cost effective for sophisticated multi-network LAN/WAN router applications
- ❑ Significant computing power in a "PowerPC" based architecture. (processing "horsepower" for future applications and growth)
- ❑ Rugged MIL-STD vehicular IT platform capable of supporting many unique upgrades and new features.
- ❑ FUSION has MIMO capability for significant increased performance of the LTE module adapter interfaces
- ❑ Ethernet/WAN connectivity to support interoperability with IP based narrowband RF data systems
- ❑ FUSION is available in two configurations to support mobile and fixed applications

DEVICEOUTLOOK



DASHBOARD & REPORTS

- Proactively monitor state, condition, and utilization of devices to improve asset usage
- Improve audit and ensure compliance to regulatory requirements with automatically generated reports
- Automated Reporting: generate automated reports providing historical insight into device performance



DEVICE MANAGEMENT

- Track firmware version of all devices in the field
- Minimizing downtime by optimizing preventive and predictive maintenance tasks
- Improve employee productivity by minimizing the time they spend searching devices and going onsite to configure and manage.



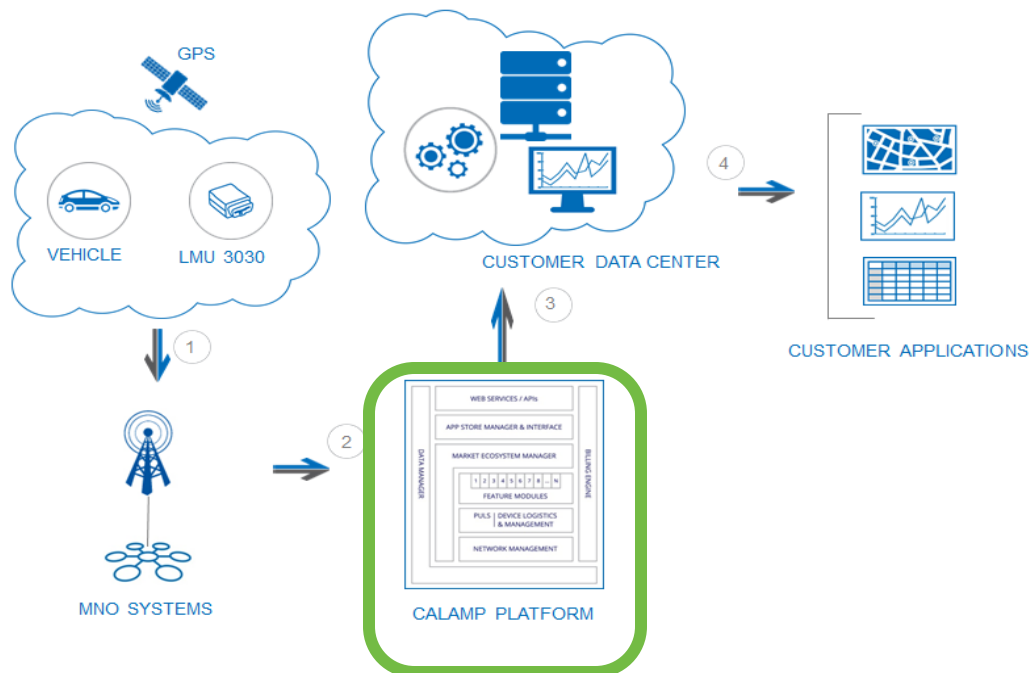
ACCOUNT MANAGEMENT

- Controlling capital expenditure by allocating devices to Sub Accounts and associated Users
- Integrates with Enterprise Asset Management via Colt API
- **DeviceOutlook Updates**
- **Enterprise Edition released for Tier 1 customers. Provides Private Cloud version (as a virtual appliance) to meet corporate policies and IT requirements**

A SINGLE DEVICE MANAGEMENT PLATFORM

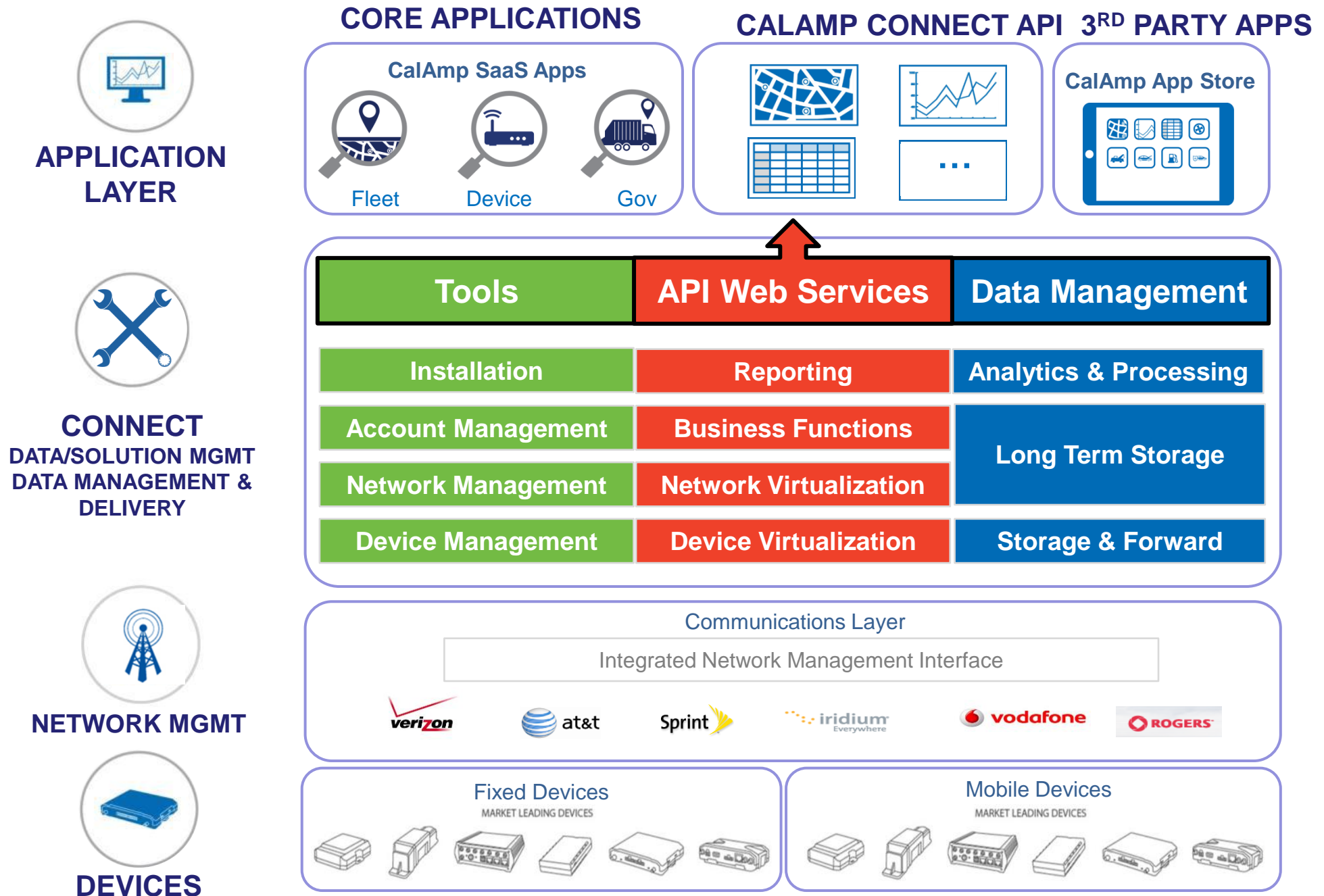
CALAMP CONNECT – THE FOUNDATION ENABLING THE DEVICE CLOUD

CalAmp platform accelerates M2M solutions by providing seamless access to customer assets using the latest cloud API standards.



- Access asset data to enable mobile applications that expand value to existing enterprise systems or generate new offerings by connecting customers with product or service information.
- Transport asset/device data from the field from a broad selection of connected devices, using a broad selection of Carriers from around the world.
- Integrate machine data with existing backend systems, enterprise and cloud applications to connect sales, marketing, and accounting teams, field workers, and management with valuable machine information.

WIRELESS NETWORKS CONNECT





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